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CENTRAL INTELLIGENCE AGENCY

REPORT NO

25X1A

INFORMATION REPORT

CD NO

COUNTRY **East Germany**

DATE DISTR February 1954

SUBJECT
1. Planned East German Radio Jamming Program
2. Development of P-50 Tube at the HF Plant

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(LISTED BELOW)SUPPLEMENT TO
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1. Lange (fnu) of the Research and Development Department of Main Administration RFT of the Ministry for Machine Construction has been secretly appointed as special expert (Sonderbeauftragter) of the Ministry for organizing a radio jamming program. This program, which is to be carried out in cooperation with the Main Administration for Wireless Telecommunications (Funkwesen) of the Ministry for Post and Telecommunications and with a few selected experts in the vacuum tube industry, is classified "highly secret" and is supervised by unidentified Russian officials in Karlshorst. Adler, of the Main Administration for Wireless Telecommunications, has in the past given periodic oral reports to Karlshorst on the development of the jamming program. Making reports in written form is prohibited. Among the Germans only four persons have so far been entirely informed about the scope and the time schedule of the program. They are, in addition to the above-mentioned representative of the Research and Development Department of Main Administration RFT, as follows:

- a. Adler, technical head of Main Administration for Wireless Telecommunications,
- b. Lexo (fnu), Director of Werk II at Baumschulenweg of the Werk fuer Fernmeldewesen HF, Berlin-Schoeneweide,
- c. Rothenburg (fnu), of the Production Department of Main Administration RFT in the Ministry for Machine Construction, has in the past been consulted on production angles of the program.

The program is to be put into action suddenly (schlagartig), as soon as the necessary equipment is completed. 1/

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2. Werk II of the HF plant has developed a P-50 tube which is to be used in the jamming program. The jamming instruments are all completed and temporarily stored at Werk II of the HF plant. They are ready for action except that completion of the P-50 tube has been delayed because of material shortages, the most important of which is shortage of aluminum oxide. There have also been difficulties from the standpoint of pure development. The completion date for the P-50 tube, which was set for 31 October 1953, could therefore not be met, and the tube is still under development.
3. The P-50 tube is alleged to be a new development on the basis of the Telefunken RS-50 tube. Since the delay of its completion considerably obstructed the time schedules set in the jamming program, it has now been decided to procure the RS-50 tube from the West. DIA has tried to open channels for the legal or illegal import of the RS-50 tube. 2/
4. Among the steps to be taken for the purpose of rendering inefficient transmissions from the West is the plan to flood the East German market in the near future with large numbers of Kolibri receivers, which are very cheap (62 DM each) and which permit reception only upon certain frequencies by the operation of keys. The Kolibri exists in two versions, one with three keys and one with only two keys.

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The LS-50 was built by Telefunken during World War II for the German Wehrmacht. Its frequency ranged from 80 to 3 meters with a power of 18 watts. It is believed, however, that even the LS-50, in view of its frequency range and small power, would be unsuited for any large scale jamming program of the kind mentioned above.

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tube rather than the RS-50. Consequently the tube for jamming operations now under development in East Germany should be the P-15 rather than the P-50. The RS-15 is a Telefunken transmission triode with a power of 1.5 kilowatts operating in the frequency range from long waves down to 50 meters. It has a tungsten cathode.

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